

What is claimed is:

1. A machine for spinning granular sugar into filaments comprising:
  - a rotatable shaft;
  - a spinner head mounted on said shaft for rotation therewith and for melting granular sugar introduced thereinto, said spinner head when
  - 5 rotating being operable to direct molten sugar filaments radially outwardly therefrom;
  - said spinner head further comprising a heater element;
  - a motor for rotating said shaft when said motor is energized;
  - a first switch having a first state for respectively energizing said
  - 10 heater element and said motor and a second state for respectively de-energizing said heater element and said motor; and
  - a delay circuit coupled with said first switch and said motor and configured to detect when said first switch changes from said first state to said second state and, in response, prevents de-energizing said motor for
  - 15 a predetermined time period.

2. The machine according to claim 1, further comprising:  
a second switch having a third state for energizing said heater element and said motor and a fourth state for concurrently de-energizing said heater element and said motor, wherein said second switch operates  
5 independently of said first switch and said delay circuit.
3. The machine according to claim 1 further comprising:  
a temperature controller coupled with said heater element and configured to adjust electrical power delivered to said heater element.
4. The machine according to claim 1, further comprising:  
a temperature controller coupled with said heater element and configured to vary a temperature of said heater element.
5. The machine according to claim 1, wherein the predetermined time period is substantially 30 seconds.
6. The machine according to claim 1, wherein the predetermined time period is between substantially 15 seconds and substantially one minute.
7. The machine according to claim 1, wherein the predetermined time period is of sufficient duration to prevent any molten or non-molten sugar within said spinner head from burning.

8. The machine according to claim 1, wherein said heater element further comprises more than one heater coil.

9. The machine according to claim 1, wherein said heater element further comprises:

a ribbon of resistance wire.

5 10. The machine according to claim 1, wherein said heater element further comprises:

a tubular heat element.

11. A method for preparing cotton candy, comprising the steps of:
- energizing a motor that rotates a spinner head for melting granulated sugar introduced therein, said spinner head when rotating being operable to direct molten sugar filaments radially outward therefrom;
  - 5 energizing a heater element located within said spinner head;
  - receiving first input to de-energize said motor and said heater element; and
  - in response to said first input, de-energizing said heater element while preventing de-energizing of said motor for a predetermined period of
  - 10 time after de-energizing said heater element.

12. The method according to claim 11, further comprising the steps of:  
receiving second input to de-energize said motor and said heater  
element; and  
in response to said second input, de-energizing said heater element  
5 and said motor concurrently, irrespective of said first input.
13. The method according to claim 11, wherein the predetermined time  
period is substantially 30 seconds.
14. The method according to claim 11, wherein the predetermined time  
period is between substantially 15 seconds and substantially one minute.
15. The method according to claim 11, wherein the predetermined time  
period is of sufficient duration to prevent any molten or non-molten sugar  
within said spinner head from burning.
16. The method according to claim 11, further comprising the steps of:  
receiving a second input relating to a temperature of said heater  
element; and  
varying the temperature of said heater element according to the  
5 second input.

17. The method according to claim 11, further comprising the step of:  
continuing to provide electrical power to said motor for the  
predetermined time period.

18. A machine for spinning granular sugar into filaments comprising:
- a spinner head for melting granular sugar introduced thereinto, said spinner head when rotating being operable to direct molten sugar filaments radially outwardly therefrom;
- 5 said spinner head including heater means for producing heat;
- rotating means for rotating said spinner head;
- changing means for changing said heater means and said rotating means from a respective energized state to a respective de-energized state; and
- 10 delay means for preventing said changing means from de-energizing said rotating means for a predetermined time period after de-energizing said heater means.

19. The machine according to claim 18, wherein the predetermined time period is substantially 30 seconds.

20. The machine according to claim 18, wherein the predetermined time period is between substantially 15 seconds and substantially one minute.

21. The machine according to claim 18, wherein the predetermined time period is of sufficient duration to prevent any molten or non-molten sugar within said spinner head from burning.

22. The machine according to claim 18, wherein the delay means is configured to continue providing electrical power to said rotating means for said predetermined time period.



23. A method for making cotton candy, comprising the steps of:
- energizing a heater element in a rotating spinner head;
  - melting sugar and spinning sugar filaments from said spinner head;
  - and
- 5 de-energizing said heater element while rotating said spinner head until said heater element is cooled substantially below a temperature sufficient to burn sugar.

24. The method according to claim 23, wherein said rotating said spinner head continues until said heater element is cooled substantially below a temperature sufficient to melt sugar.

25. A device for making cotton candy, wherein sugar is melted and spun into filaments, said device comprising:
- a rotatable spinner head;
  - an energizable heater operably disposed in said spinner head to melt
  - 5 sugar therein while said spinner head is rotating; and
  - an apparatus for de-energizing said heater while said spinner heat is rotating, wherein said heater is cooled while said spinner head is rotating.

26. The device according to claim 25, said heater is cooled substantially below a temperature sufficient to melt sugar while said spinner head is rotating.

27. The device according to claim 25, said heater is cooled substantially below a temperature sufficient to burn sugar while said spinner head is rotating.